

GRADUATION EDITION

TOIKE OIKE



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**TOIKE OIKE, TOIKE OIKE, OLLUM TE CHOLLUM TE CHAY,
SCHOOL OF SCIENCE, SCHOOL OF SCIENCE, HURRAY, HURRAY, HURRAY.**

Vol. XXXI

Tuesday, March 12, 1940

No. 9

SPADES AND SHOVELS

Spades, shovels and scoops are real things, work things, which for thousands of years have been used by men to change the face of the earth. These, in some form, have been the tools of engineers for centuries, from the days of the Pharaohs, to the days of our great tunnels and railways, the power plants and the deep gold mines of Canada.

You men of the graduating engineer Class of 1940 will, figuratively speaking, use spades all your engineering life, and shovels and scoops for most of it. The more diligent and dextrous you become with the spade digging, the more you will have for your shovel or scoop to gather and store for the future, be it knowledge, experience, money or golden opinions of your fellowmen.

It is amazing all the things that can be done with spades, shovels or scoops. The world is full of them these days and we see them all about us in Engineering, in Industry, Finance, and even War.

Most men in the world are spaders, shovellers or scoopers. Some are just one and some are all three, as most of you engineers will be. You may, at times, be called stokers, muckers, chargers, mixers or some such strange names, but you will be moving the earth and everything that's in it. It

(Continued on page 4)

THE ALUMNI DINNER

The Round Room, Eaton's College Street
Wednesday, March 13th, 1940, 7.15 p.m.

A Prominent Engineer is to speak

Ceremony of Induction of Men of 4TO into the Alumni Association

Entertainment — Professional and otherwise

Dinner provided by the Alumni 4TO's most important get together

ELECTION RESULTS

Engineering Society Executive

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1st Vice-Pres.—W. E. K. BROWN
2nd Vice-Pres.—J. M. LEITCH
Treasurer—W. F. BRUNDIT
Secretary—J. T. CAWLEY

Athletic Association Executive

President—R. FUGLER (Accl.)
Vice-Pres.—D. E. GROSSKURTH
Sec.-Treas.—H. J. BARRET

4T1 Year Executive

President—J. S. MUNRO
Vice-Pres.—O. K. SMITH
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Athletic Rep.—J. E. REYNOLDS

4T2 Year Executive

President—E. F. J. CLARK
Vice-Pres.—J. H. ALEXANDER
Sec.-Treas.—J. R. GUNDY
Athletic Rep.—W. H. L. BRYCE

4T3 Year Executive

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Athletic Rep.—J. N. DICKIE

Club Chairmen

Civil Club—J. P. STIRLING
M. and M. Club—
J. M. WACHSMUTH
Mechanical Club—D. L. ANGUS
(Accl.)
Architectural Club—E. H. NOAKES
(Accl.)

Eng. Physics Club—V. V. MASON
Chemical Club—F. H. ALLEN
Electrical Club—R. SCOTT
Debates Club—P. E. PASHLER
(Accl.)

Bronze "S"

S. D. TURNER
(Continued on page 2)

THE GRAD BALL

The Concert Hall, Royal York Hotel,

Tuesday, March 12th, 1940

Bob Shuttleworth and His Band

Dancing from 9.00 to 3.00

Admission by Invitation

4TO's greatest party.

SPORTOIKE

In this column you see the parting shot of this year's executive of your Athletic Association. We are proud to say that through no effort on our part, S.P.S. is once again about to conclude a highly successful year. We take our fate into our own hands and predict that S.P.S. will win the T. A. Reed Trophy for the third consecutive year by reason of the fact that its nearest competitor is over one thousand points behind. As the number of Championship Teams that we have had this year is small, very small, the fact that S.P.S. is far in the lead signifies that the average student in S.P.S. is very much better than the average in the University. Of course this has been suspected for years. Now if we could only prove a few things in connection with our scholastic standing. Or should we?

The Athletic Dinner was a tremendous success, considering that it is only the second year it has been held. Conny Smythe proved to everyone's satisfaction that it is possible to graduate from school even under the most adverse circumstances. He spoke straight from the shoulder with a rare turn of humour. This function increased its attendance 33% over the previous year and because of its popularity this year we

(Continued on page 2)

THE KIPLING RITUAL

The West Hall, University College

Wednesday, March 13th, 1940, 6.00 p.m.

Ceremony of the Ritual of the Calling of an Engineer

Voluntary

A serious and dignified occasion

No one admitted after 6.00 p.m. The Ceremony will be over soon after 7.00 p.m. in time for the Alumni Dinner 4TO's most solemn occasion

The Toike Oike

Devoted to the interests of the Undergraduates of the Faculty of Applied Science.

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 Assistant Editor H. G. Stark
 Feature Editor C. M. Mitchell
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 2nd Year K. H. Kidd
 Director of Publications and
 Publicity F. F. Walsh

FROM BEHIND CLOSED DOORS

Well fellows, believe it or not, graduation is just about here, and for those of fourth year this will be our last fling together before the final exams. But remember, when you leave School, keep in touch with your permanent executive. Be sure that they have your address before you depart and let them know where you are employed as soon as possible. Make a special effort to attend all your year functions after graduation and at the same time renew old acquaintances.

* * *

As you have read in *The Varsity*, the Engineering Society has seen fit to drop from the Canadian Students' Assembly. In its place it is proposed to form a new group in School which will take advantage of the Interest Group Assembly on the Campus which is now being formed, and to elect a representative to this group. A member of the Campus Interest Group will sit on the S.A.C. Executive. Our School Committee will consist of a member from each year appointed by each Club, and will include a member of the Club Executive. The whole Committee will be headed by the Debates Club.

These interest groups are to cope with student opinion from first to fourth years.

* * *

The final general meeting of the Engineering Society is being held on Monday, March 18th. Professor Haultain, who is going to speak, has postponed his trip to Florida especially for the occasion, so let's all turn out and show our appreciation.

* * *

Fourth Year have disposed of their Tamblyn and Imperial Oil stocks, and unfortunately suffered a loss. For this reason it has been deemed advisable for future years not to invest their year

funds, despite the fact that a number of other years have sold their stocks and acquired considerable profit.

* * *

The graduating class are again reminded to be sure and attend the Alumni Banquet to-morrow night at Eaton's Round Room. (Despite the fact that it is the night after the Grad Ball, there will be no excuse for anyone to say the room is anything but round.) The Alumni are entertaining us at their expense, and are going to a lot of trouble to make the evening an eventful one. The same night, before the banquet, at 5.45 p.m. the famous Kipling Ritual (Iron Ring Ceremony) will be held in the West Hall of University College. Doors will be closed at 6.00 p.m. sharp.

Do you think these bareback dresses will get any lower?

No, the end is in sight now.

Cripes, I haven't seen any cut that low.

SPORTOIKE

(Continued from page 1)

would predict that students will be fighting over tickets next year.

Election being finished for this year we note with satisfaction that this executive is to be replaced by a still better one (plug). Ron Fugler, next year's President, besides being a fine rugby player, knows the ropes and is well qualified to carry on next year. Incidentally he was chosen by the Senior Rugby Team of this faculty to receive the Phene Memorial Trophy which was duly presented at the dinner.

A further satisfactory result of the elections is the choice of Doug Turner to receive the Bronze "S". Besides playing rugby on the Senior Inter-collegiate Team every year, Doug was First Vice-President of the Engineering Society this year and a member of the University Athletic Directorate. We believe he did a little work on the side and attended a few lectures. He certainly deserves the award and we hope his successes continue.

So with thanks to S.P.S. athletes, we say, may School continue to conquer.

GORD McHENRY,
President, Athletic Association.

Mother—Mary, why did it take you so long to say good-bye to that boy?

Mary—But Mother, if a fellow takes you to a movie the least you can do is to kiss him good-bye.

Mother—I thought you went to the Grad Ball.

Mary—Yes, Mother.

4TO Permanent Executive

President—D. R. B. McARTHUR.

25 Willowbank Blvd., Toronto

Vice-Pres. (2)—S. M. S. DUNN

(Accl.) Ridgeway, Ont.

F. F. WALSH

(Accl.) 295 Inglewood Dr.,
 Toronto

Sec.-Treas.—W. K. CLAWSON

96 Oakwood Ave., Toronto

Councillors—

S. J. SIMONS (Accl.)

690 Broadview Ave., Toronto

J. D. BRYCE (Accl.)

102 Binscarth Rd., Toronto

J. R. MICHEL. Lindsay, Ont.

B. TEDMAN (Accl.)

67 Farnham Ave., Toronto

J. B. HALL

34 Foxbar Rd., Toronto

G. KENNEDY (Accl.)

143 Spadina Rd., Toronto

G. M. McHENRY (Accl.)

64 Grenview Ave., Toronto

M. D. BLEAKEN (Accl.)

74 Simpson Ave., Toronto

To tell the sex of a sardine you watch which can it comes out of.

SCHOOL'S LATEST FROSH SCHOOL DOES IT AGAIN

Fred Lockhart, third year metallurgist, was pacing the corridors of a Belleville hospital, Thursday, February 27th, when he was startled by a lusty "Toike Oike". He swung around in astonishment to be greeted with a cheery "Hello Dad", from Frederick James Dennis Lockhart, Jr., cuddled snugly in the arms of a smiling nurse.

Fred Sr. whooped with joy and caught the first train back to School to spread the great tidings. However, the big bird with the long bill beat him home and on arriving at School he was met by the third year metallurgists who presented him with a set of baby scales and a lovely sterling silver mug.

Junior has already started on the road to School as, instead of learning how to build castles with wooden blocks, Fred is teaching him to keep the cathode near the window and the anode by the door.

ENGINEERING PHYSICS CLUB

Well, lads, with the spring term rapidly rolling to a close and examinations looming precariously just around the corner, it's time for all good things to come to a close, and so we shall hold just one more meeting "sometime in the latter part of March—somewhere in Hart House" at which we are trying to get Professor Loudon to talk to us. The meeting is primarily to give the

First and Second Years a little advice on the choosing of their options, and also to introduce to you your executive for next year. The elections for the offices of Vice-President and Secretary-Treasurer will be held at the meeting. The Vice-Chairman is elected from the present second year while the Secretary-Treasurer is elected from the present first year. Be sure to get the right men for the jobs.

Your executive for this year wish to take this opportunity of wishing you all the best of luck in the coming examinations and a very successful year next year under your new chairman, Vic Mason.

"HANK" STARK.

ARCHITECTURAL CLUB

Dear Kiddies:—For the last time your Uncle Wiggly sends greetings, and prays that you and he may have equal luck in the exams,—all good! I regret to have to announce that we cannot put on our proposed show this year, due to lack of funds, but the material has been gathered, and next year you should be able to do it up right.

The last Club function for the year is to take place next Wednesday, when the Club will entertain Mr. Serge Chermayeff at dinner at the Arts and Letters Club. Mr. Chermayeff is going to speak at the Grange later, and it is expected that the party will move on to hear him there.

Now, since my trembling fingers refuse to guide my quill much farther, I leave you with the following:

"To Noakes, with failing hand I fling
The honours,—a far better thing
Than I have ever flinged before.

To him the task I, wearied, leave,
Of pulling speakers from his sleeve,
Then making all you mugs believe
That they're worth hearing.

Be his the right to hold on high
The T square rampant, on a sky
Of bottles, set-squares, and to sigh
The motto of our Club, to wit:

"Hi Moe!"

BLAKE H. M. TEDMAN.

DEBATES CLUB

Looking over the past season from the viewpoint of our Club, it has been an interesting and successful one. While the attendance has left something to be desired sometimes, an average of twenty and high of forty is not too bad. The Club ran off discussions, public speaking, and the Segsworth debates, and fulfilled its purpose of encouraging thinking on one's feet.

In review, Park Deilly, second year

Chemical, won the public speaking trophy; third year in the persons of Jack Ames and Jack Stirling, both Civils, won the Segsworth debates by beating out the other three years in the elimination. They hold the Segsworth trophy for the coming year and also received engraved pewter beer mugs (with glass bottoms, no less) from Mr. Segsworth, well-known Toronto Mining Engineer, who has followed this custom over the last couple of decades.

Next year, the Club may be formed into a group of active members, with a small fee charged, so that those truly interested can take part. We turn the Club over to the new executive of:

Chairman: Ted Pashler

Secretary-Treasurer: Al Extence

Vice-Chairman: Bob Calladine

The year reps. are to be appointed in the fall. With all sorts of thanks for the help of this year's executive and best wishes to the incoming bunch.

ROWED GREIG.

INDUSTRIAL CHEMICAL CLUB

Well, fellows, Spring is around the corner, and in the spring a young man's fancy doesn't turn towards examinations; but what can you do?

We are bringing the Chemical Club season to a close on Friday, March 15th, with a dinner meeting at Hart House from 1.00 to 3.00 p.m. The speaker will be Dr. Berry, Minister of Health for the province of Ontario. Dr. Berry is an expert in the field of water purification and will tell us, aided by some good lantern slides, what kind of work the Government is doing along this line. As it is the last meeting it would be well if all attended and helped make this meeting one of the biggest ever. It will cost you the big sum of one dime, ten cents, for your dinner and any entertainment which goes with it. This is a good bargain, Gentlemen, so take advantage of it. We hope you have enjoyed the meetings this year and the entertainment we have supplied with them. The executive has worked hard and well in all we have done, and to them is due all credit if there be any. I would like to thank Moden, Boyes, Livingstone, McCarthy, Allen, Waschsmuth and Kingsbury for their fine spirit and co-operation.

To Fraser Allen, your new chairman, I wish the best of luck and know that he will be a fine chairman.

GEORGE KENNEDY.

CIVIL CLUB

Elections are over—that's certain. Stirling is your new chairman—that's

fine. Congratulations John; a good man and that's certain. Now we can retire gracefully leaving behind what has been a highly successful year,—that's a relief. In parting, the executive should like to thank the members for their loyal support of the Club's activities during the past year—that's sincere. However, in a few short weeks we will be writing exams, and that, gentlemen, is HELL!

Best of luck.

KEN CLAWSON.

MECHANICAL CLUB

Now that everyone is on the last lab and the midnight kilowatts are lighting the way to "new" discoveries we look back and see that it has been a short but sweet term since Christmas after all.

The last Club activity was the Annual Dinner and it goes down in history as establishing a new record. The attendance has been all that could be desired at every meeting which proves that the classes are really pulling together. With the capable leadership of the new Club chairman, Don Angus, and the hearty co-operation of the new fourth year, the Club should reach new heights of achievement.

This year of all years, the Mechanicals will really have their chance for practical experience in the programme of development and will at the same time be fulfilling in part, a serious need.

The best of luck to all of you and may School Spirit be evidenced at many a chance meeting or reunion to come.

LORNE PATTERSON.

MINING AND METALLURGICAL CLUB

At this year's election, for the first time in many many years, a Metallurgist has been named as chairman of the M. and M. Club.

A precedent has been set, and we hope it may endure.

In the past, the miners by virtue of their overwhelming majority have enjoyed almost complete control but it looks as though the picture has changed.

Jack Wachsmuth, the new chairman is a very capable man and we feel he has some good ideas that will make association with the M. and M. Club profitable, not only for the Metallurgist, but also for the Miner.

However, we hope the Miners will realize that the success of the Club will depend largely upon their support.

Therefore, men, Miners and Metallurgists alike get behind this fellow Wachsmuth and help him to give you a really worthwhile Club.

F. S. BOLTON.

SPADES AND SHOVELS

(Continued from page 1)

may be rock, sand, water, fire, iron, gold, oil, gas, or electricity; yours will be the spades and shovels and scoops of one kind and another. (Believe it or not, you really can scoop electricity if only by induction.)

The steel shovel with which you gentlemen of this great Faculty presented me "School-Nite" in February, quite appealed to me because of the regard which I knew lay behind the gift. Amusing though the whole proceeding was in the black-out of Hart House Theatre, it brought a serious thought and no one could get that shovel away from me; it was an emblem.

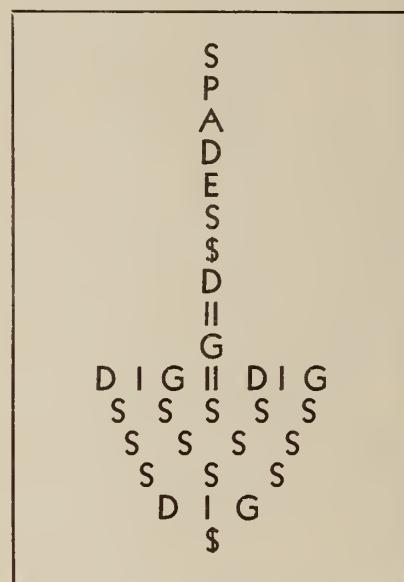
One gets nowhere without digging and digging all the time, and hard. You have to dig for new things, old things, hidden things, with any kind of spade you can use. The undiscovered hidden secrets of nature and fresh ideas do not grow on bushes by the roadside, where you can step up and pluck them; one has to go after them, do a lot of spade work, find them, dig for them. "Gold is where you find it".

The spade, "a tool for digging or cutting ground, having a flattish iron blade with a wooden handle adapted for grasping with both hands, while the blade is pressed into the ground with the foot", is the most common tool used to help us get our food, the first requisite of life (Economics lectures). It is as well, one of our means of recreation—digging the garden and the pleasure in growing flowers, one of the happiest hobbies of life. Develop your hobbies, whatever they may be, they will give you great pleasure and interest outside of your professional work.

When I was a small boy of six, my father lived in a small Ontario town. We were having a new well dug in the garden and I was highly interested in its mysteries and complexities. A kindly man came to visit us and as I stood by his knee, he asked me "What are you going to be when you grow up?" I promptly and proudly answered, "I'm going to be a well-digger". It took; I rather think I have been one, if water works, dams, bridges and hydro-electric power plants can be counted.

It is curious how the spade applies to other things. There is the spade-beard such as our great grandfathers wore the last century. There is, in artillery, the spade attachment on the trail of a field gun to check its recoil. There are spade bits, chisels, bolts. The spade suit in bridge takes precedence and spades are worth more than dia-

monds. If you wish to talk boldly in plain blunt language without mincing matters, you "call a spade a spade"—very useful at times.



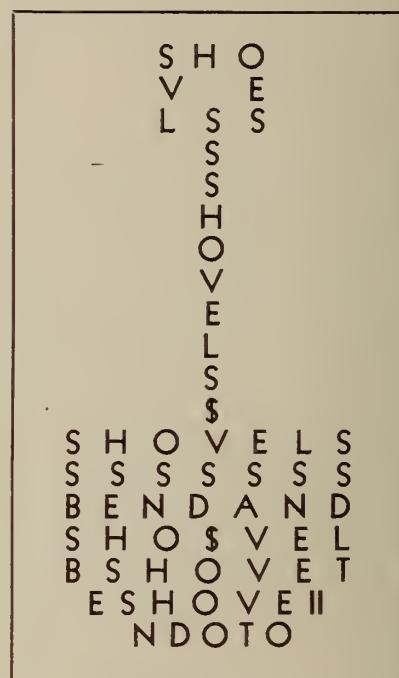
DIG-DIG-DIG

The spade hands on its work to the shovel which then becomes the gatherer, the distributor, the remover, the transporter; it can throw in or cast out. Of course you will have to be both spaders and shovellers. Shovelling, while being more of a back-breaker, is more satisfactory, because its results are more promptly visible—barrows full, wagons full, bins full. There are shovel mixing for concrete, conveying for furnaces, steam shovels, electric shovels, furnace chargers, ancient and modern, they are all the same.

Whatever it may be that, figuratively, you have to shovel, bend to it, put your back into it, shovel until your arms ache, your hands are blistered, the sweat in your eyes. It will be good for you and you certainly will get your rewards. Then surely the entreaty of David (Ps. 90) "Oh prosper thou our handy-work" will be answered.

The shovel, like the spade, also applies itself in strange ways. The shovel-hat worn by ecclesiastical dignitaries, may yet come into common fashion these modern days of queer head gear. Shovel (shuffle) board, when you go for a sea voyage, may tax your skill with some dextrous lady contestant. There are the shovel-head shark and the shoveller (spoon-bill), a surface feeding duck; "The male, with his contrasted plumage of white and brown, with dark green head and orange feet, is a handsome bird". (In what department would you put him?)

Did it ever occur to you that two of the most valuable commodities in the world are lifted and moved with shovels? Wheat in our cars and ships is or was handled by shovels. Golden sovereigns, in the happy gold standard days, were paid out with shovels. Thackeray in "Vanity Fair" (XIII) says, "The cashier, whose benevolent occupation it is to hand out crisp bank notes from a drawer and to dispense sovereigns out of a copper shovel".



BEND TO IT

As for scoops, there are sixteen uses given in the Oxford dictionary. "A utensil for bailing out, ladling or skimming liquids", "the bucket of a water wheel or of a draining or dredging machine", "A kind of shovel for dipping out or shovelling up or carrying materials of a loose nature", "To make a hollow". In journalistic use to "cut out a rival reporter or paper in advance or to the exclusion of other competitors". Some day you may have to direct feverish work scooping or bailing out water or quicksand from inside a leaking cofferdam; then you will find out about scoops. Some day, too, you may, by hard work, have hit upon some new industrial process, a time or money-saver and then you may get a scoop on your rivals.

So I say:—Dig; dig and spade as hard as you can, all the time. Shovel; bend to your shovel until your back aches. Work and watch for the chance of the happy scoop that may put you out in the lead. Good luck.

C. H. MITCHELL.